

SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS
BEFORE COMPLETING FORM REPORT DOCUMENTATION PAGE 2. GOVT ACCESSION NO 3. RECIPIENT'S CATALOG NUMBER DR-993 TITLE (and Subtitle) 5. TYPE OF REPORT & PERIOD COVERED 197Ø2 GSRS, Missile Number 3864 Round Number B-5 FERFORMING ORG. REPORT NUMBER AUTHOR() B. CONTRACT ON GRANT NUMBER(0) WSMR Meteorological Team DA Task 116657920127-02 PROGRAM ELEMENT, PROJECT, TASK 11. CONTROLLING OFFICE NAME AND ADDRESS 12. REPORT DATE US Army Electronics Command Man 1979 Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico ... MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office) 15. SECURITY CLASS. (of this report) US Army Electronics Command UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Ballistics 2. Meteorology 3. Wind A ABSTRACT (Coutinue as reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19702 GSRS, Missile Number 386, Round Number B-5, are presented in tabular form.

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INTRODUCTION

19702 GSRS , Missile Number(s) 386 , Round Number(s) B-5 , were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0845 MST, 12 March 1979 . The scheduled launch time(s) were 0845 and MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole mounted and tower mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

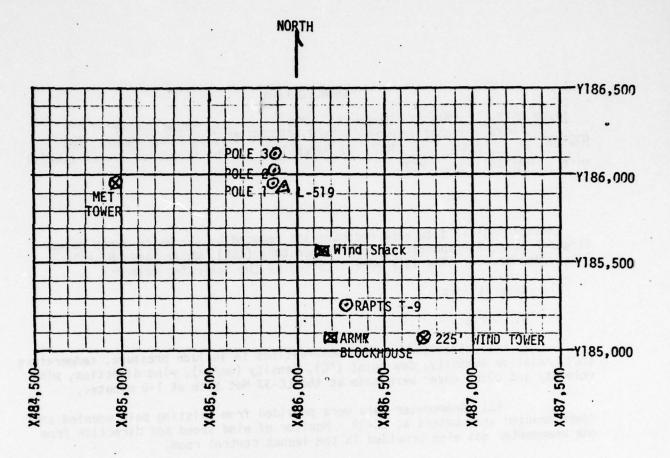
b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation as follows:

SITE AND ALTITUDE

LC-23 1 kilometer (50 meter inc) T-10 mins and T-0 mins

(2) Air structure data (rawinsonde) were collected at the SMR Met Site at T-0 minutes. Data were collected from surface to 125% of apogee in 500-feet increments.



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders in Wind Shack.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders in Wind Shack
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977.30	FEET/MSL
PRESSURE	884.4	MBS
TEMPERATURE	9.4	°c
RELATIVE HUMIDITY	38	%
DEW POINT	-4.2	°C
DENSITY	1122	GM/M ³
WIND SPEED	10	МРН
WIND DIRECTION	020	DEGREES
CLOUD COVER	Clear	

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33
AT 0845 MST/12 MARCH 1979
19702 GSRS, MISSILE NUMBER 386
ROUND NUMBER B-5

LESS FIXED POLE ANEMOMETER MEASURED WINDS

POI	LE #1		PO	LE #2		PC)LE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	360	6.0	-30	004	4.0	-30	013	9.0
-20	003	6.0	-20	360	3.0	-20	015	10.0
-10	012	6.0	-10	009	3.0	-10	021	10.0
0.0	015	7.0	0.0	025	2.0	0.0	019	10.0
+10	014	7.0	+10	Calm	Calm	+10	023	10.0

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

TABLE	II				
TYPE	19702 GSRS	MISSILE NO	386	ROUND NO. B-	5
LAUNCHE	D FROM LC-33	DATE 12 March	1979 TIM	E0845	LST
NOTE:	WIND DIRECTIONS A	RE REFERENCED TO	THE FIRING AZ	IMUTH	
OR TRUE	NORTH 36	0°			

4

LC33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1 12 ft			LEV 62	EL #2 ft	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	025	6.0	-30	002	6.0
-20	006	5.0	-20	008	4.0
-10	021	4.0	-10	003	3.0
0.0	019	4.0	0.0	009	5.0
+10	003 、	4.0	+10	003	5.0
LEVEL #3 102 ft			LEVEL #4 202 ft		
			II .		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
	DIR				
SEC	DIR DEG	MPH	SEC	DEG	MPH
_ SEC -30	DIR DEG 005	MPH 4.5	-30	DEG 004	MPH 4.5
-30 -20	DIR DEG 005	4.5 4.0	-30 -20	004 005	4.5 4.0

WTSM COORDINATES: X484,982.64 Y185,957.73 H3983.00(base)

TABLE_	III	No.	1 denotes \$1					
TYPE_	19702 GSRS	. 19719	MISSILE NO	386		KEELIN SAA	ROUND NO.B-5	
LAUNCH	ED FROM LC-	-33	DATE12	March	79	TIME	0845	MST
NOTE:	WIND DIRECT	IONS ARE	REFERENCED	TO THE	FIRIN	G AZIMUTH	•	
OR TRU	E NORTH	360°						

PILOT BALLON MEASURED WIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	020	8.0
50	010	9.4
100	007	9.3
150	009	8.0
200	009	5.5
250	005	4.0
300	354	3.4
350	337	3.4
400	313	3.5
450	295	4.1
500	285	4.8

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
550	279	5.3
600	275	6.2
650	271	7.1
700	268	8.1
750	271	9.7
800	270	9.6
850	274	8.3
900	284	7.0
950	297	7.2
1000	291	7.7

TABLE IV								
RELEASED FROM	LC-33	DATE_	12 Marc	ch 1979		_TIME_	0835	LST
RELEASE POINT	COORDINATES	(WSTM) X=	486,037	7.24	Y=182,	350.16	H= 3997.30	
MISSILE TYPE_	19702 GSRS	MISSILE	NO	386		ROUND NO	- B-5	
MISSILE LAUNCE	HED FROM	LC-33	DATE_	12 March	1979	_TIME_	0855	LST
NOTE: WIND D	IRECTIONS AR	REFERENCED	TO THE	FIRING A	ZIMUTH			
OR TRUE NORTH	360°							

FILOT BALLON MEASURED WIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	030	10.0
50	004	8.8
100	357	8.1
150	004	7.0
200	010	8.2
250	016	7.8
300	024	6.0
350	029	2.9
400	019	2.2
450	353	2.4
500	329	3.4

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
550	303	4.9
600	292	5.7
650	284	6.3
700	280	7.0
750	278	7.6
800	284	7.0
850	294	6.6
900	301	7.1
950	295	8.6
1000	290	9.0
1050	284	9.8

TABLE V							
RELEASED FROM_	LC-33	_DATE	12 March	1979	TIME	0845	LST
RELEASE POINT	COORDINATES (WSTM) X=_	486,037.24	Y= 182	,350.16	H= 3977.3	0
MISSILE TYPE_	19702 GSRS	MISSILE	NO. 386	81938	ROUND NO.	B-5	
MISSILE LAUNCH	HED FROM LC-33		DATE 12 Ma	arch 1979	TIME_0	845	LST
NOTE: WIND DI	RECTIONS ARE REFE	RENCED T	O THE FIRE	NG AZIMUT	"		
OR TRUE NORTH	360°			•		1	

10
54110.6
0.0
1

STATION ALTITUDE 3997.30 FEET MSL 12 MAR. 79 0845 HRS MST ASCENSION NO. 43

SIGNIFICANT LEVEL DATA 0710060043 S M R

GEODETIC COCRDINATES 32.48034 LAT DEG 106.42307 LON DEG

PRESSURE GEOMETRIC TEMPERATURE REL.HUM.
ALTITUDE AIR DEWPOINT PERCENT
MILLIBARS MSL FEET DEGREES CENTIGRADE

74.0 59965.4 -68.0 70.0 61006.3 -68.6 63928.3 -67.3 58.2 64736.7 -65.4 50.0 67793.1 -64.9 42.6 71037.0 -62.9 30.0 78223.8 -60.1 27.2 80249.5 -59.4 20.0 86708.8 -53.7 14.8 93169.7 -46.2 12.4 97040.3 -44.5

9

DETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	INDEX OF REFRACTION	1.000265 1.000265 1.000255 1.000255 1.000256 1.000248 1.000242 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000229 1.000220 1.00020 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.000220 1.0002	
GEODETIC 32.44	SPEED KNOTS	000 1000 000 000 000 000 000 000 000 00	
	WIND DATA DIRECTION S DEGREES(IN)	15.0 292.4 2888.9 267.1 267.2 267.2 277.2 277.2 277.3	
DATA	SPEED OF SOUND KNOTS	6555 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
UPPER AIR D. 071006004 S M R	DENSITY S GM/CUBIC METER	10090 10070	
	REL . HUM . PERCENT	20000000000000000000000000000000000000	
T MSL MST	PERATURE DEWPOINT CENTIGRADE		
7.30 FEET MSL 845 HRS MST	TEMPE AIR DEGREES (
STATION ALTITUDE 399 12 MAR. 79 ASCENSION NO. 43	PRESSURE MILLIBARS	8888 86811 86811 86811 86811 86811 8681 8	
STATION ALTI	GEOMETRIC ALTITUDE MSL FEET	40007. 40007. 5500000 7500000 7500000 7500000 111500000 1125000000 11250000 11250000 11250000 11250000 11250000 11250000 11250000 11250000 11250000 11250000 1125000 1125000 1125000 1125000 11250	

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

75	
3997.30 FEET MS	0845 HRS MST
STATION ALTITUDE 3997.30 FEET MSL	ASCENSION NO. 4

	9E(
UPPER AIR DATA	0710060043	α ×	

COOKDINAT 18034 LAT D 12307 LON D	GEODETIC COOKDINATES 32.48034 LAT DEG 106.42307 LON DEG	ES	EG	9 E
C00KD1	ETIC COOKDI 32.48034 L/ 06.42307 LC	NAT	D L	O NO
C C C C C C C C C C C C C C C C C C C	ETIC CO 32.4803 06.4230	OKD	4	7 1
	ETI 32.	000	+803	+230

SEOMETRIC	PRESSURE	TEMF	~	REL. HUM.	15 6	SPEED OF	TAO ONIW	TA	INDEX
MSL FEET	MILLIBARS	DEGREES	CENTIGRADE	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
00		-25.7		24.0		612.9	265.8	53.6	1.000130
90		-26.7		24.7	570.7	611.7	267.6	57.6	000012
0		-27.5	-41.4	25.1		610.6	264.5	61.7	.0001
00		-28.3	-42.0	25.3	550.6	609.7	269.1	0.99	1.000124
00		-29.0	-42.6	25.4		608.7	268.9	70.8	
00		-29.8	-43.2	25.6	531.0	607.8	269.6	75.8	1.000119
00		-30.6	-43.8	25.8		606.8	207.5	81.1	1.000117
00		-31.3	5.55-	25.9	512.1	605.8	266.3	36.4	1.000115
00		-32.2	-45.3	25.7	503.0	604.7	265.4	9.00	1.000113
ė		-33.2	-46.3	25.3	2.464	603.5	264.7	95.1	1.000111
00		-34.1		24.8	482.6	602.3	264.2	45.4	1.000109
ė.		-35.1	-48.3	24.3	477.1	601.1	263⋅8	95.1	1.000107
00		-36.1	-50.1	21.8**	468.8	6.665	263.2	95.4	1.000105
00		-37.0	-54.6	14.0**	5.091	598.6	262.6	95.8	1.000103
00		-38.0		6.2**	452.3	597.4	261.7		1.000103
ė		-38.9				590.2	260.9		0000
00		-39.5				595.5	259.9		1.000000
-2000		0.04-			•	6.465	258.9	105.1	1.000095
00		5.04-			. 8	594.2	258.7	6.90	1.000093
0		6.04-			6	593.7	258.5	108.8	1.000091
0		-41.2			401.2	593.4	258.8	11.3	1.000089
3.000.0	261.3	-41.0			392.1	593.6	259.0	113.9	1.000087
0		-41.0			-	593.6	258.8	11.3.3	1.000085
		-41.2			375.3	593.3	258.5	112.1	1.000084
		-45.0			-	592.3	257.9	107.6	1.000082
•		-45.8			-	591.3	257.2	101.9	1.000080
0		-43.6				590.3	255.9	6.96	1.000079
0.		t				589.2	254.2	92.4	1.000077
		6.44-			340.1	588.6	252.5	91.3	1.000076
00		-45.4				588.0	520.6	92.8	1.000074
00		4.94-			327.7	586.6	549.6	94.1	1.000073
000		-47.5			321.8	585.2	248.7	6.76	1.000072
0					316.1	583.8	250.0	0.96	1.000070
00		5.64-			310.2	582.6	251.4	97.7	1.000069
00		8.67-			303.4	582.3	855.8	9.60	1.000068
00		-50.6			297.5	581.1	3	102.3	7.000066
00		-51.5			-	6	ć		1.000065
00		-52.6			286.5	578.5	255.2	103.1	1.000064
00		-53.3			280.7	577.7	ŝ	98.8	1.000063
00		-53.9			14.	576.9	240	÷	1.000061

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

A NOTING	LITIONE	SAME SO PEEL MSL	10
12 MAR. 79	6	DRUS HRS MST	2

GEODETIC COORDINATES	32.48034 LAT DEG	106.42307 LON DEG

### PRESSURE PRESSURE TEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA ### PRACTICE CONTINUATE REL.HUM. DENSITY SPEED OF WIND D	STATION ALTIT 12 MAR. 79 ASCENSION NO.	UDE 39	97.30 FEET MSL 0845 HRS MST	UPPER AIR DAT 071006 ⁰ 043 S M R	UATA 043		6E0DETIC 32.4 106.4	DETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG
169.0	EOMETRIC LTITUDE SL FEET	m v	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRAD	 DENSITY GM/CUBIC METER	SOUND KNOTS	WIND DA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
165.0 -55.1 -55.9 -55.9 -55.	4500	C	5			-		,000
151.1 55.9 55.6 55.6 55.6 55.7 55.9 55.6 55.7 55.9 55.6	9	165.0	24.	60	576.1	254.3	88.1	1.000060
157.3 55.4 52.5 52.5 52.4 52.4 52.5 52.4 52.5 52.4 52.5		2001	000	2	2000	6.000	05.30	50000
150.0 -56.8		10101	-55.9	258.4	2.4.5	254.5	82.5	• 00000
150.0		21:	-56.8	253.3	573.1	554.6	N	
195.0 155.0 255.2 83.8 1150.0 155.0 255.2 10.0 155.0 155.0 10.0 15	:	53	-57.6	248.3	571.9	554.9	83.2	.00000
146.5 - 559.7 234.4 567.2 255.4 78.9 113.4 66.1 133.6 66.1 133.6 6	÷	150.0	-58.5	543.4	570.8	255.2	83.8	.00000
182.8 -60.9 23.4 567.6 225.7 71.3 71.3 136.4 -62.1 225.8 564.3 256.7 555.7 62.9 136.7 -64.3 225.8 564.3 256.7 555.7 62.9 127.4 -65.1 227.3 563.0 257.4 46.5 62.9 127.2 -66.7 26.7 26.7 557.6 46.5 62.9 127.1 -66.7 26.7 26.9 66.9 257.4 46.5 62.9 127.1 -66.7 26.7 26.9 26.9 62.9		146.3	-59.7	238.9	569	255.4	78.9	1.000053
135.4 -62.1 136.4 -62.1 137.4 -62.1 137.5 -64.3 137.5 -64.3 137.6 -64.3 137.7 -64.3 137.7 -64.3 137.8 -65.1 125.2 -65.2 125.1 -65.7 125.1 -65.7 137.1 -69.2 137.1 -69.2 137.1 -69.2 137.1 -69.2 137.1 -69.2 137.1 -69.2 137.2 -68.9 137.3 -68.9 137.4 -72.1 137.4 -72.1 144.1 -69.2 155.2 -68.9 155.2 -68.9 166.2 -65.3 172.1 -69.2 172.2 -68.3 172.3 -68.3 172.4 -69.2 172.5 -68.3 172.5 -68.3 172.5 -68.3 172.5 -68.3 172.5 -68.3 172.5 -68.3 172.5 -68.4 172.5 -69.4 172.5		142.8	6.09-	234.4		255.7	71.3	1.000052
136.0 -63.3 225.8 564.3 255.4 46.5 129.4 -66.7 -66.7 26.1 257.4 46.5 129.4 -65.9 -66.7 26.9 257.4 46.8 120.0 -66.7 -66.7 207.5 56.9 257.2 44.7 117.0 -68.4 -66.7 207.5 208.6 257.2 46.8 117.1 -69.2 199.1 557.5 250.3 50.9 111.3 -69.2 199.1 557.5 250.5 50.9 111.4 -69.2 190.1 185.0 250.5 250.5 50.9 110.5 -68.9 180.0 555.9 250.5 50.9 50.9 100.6 -69.6 180.0 555.9 250.5 50.9 50.9 100.6 -69.6 180.0 180.0 250.5 250.5 50.9 100.6 -69.6 180.0 180.0 250.5 250.5 250.5 250.5 250.5 250.5 250.5 250.5 250.5 250.5 250.5		139.4	-62.1	230.1		256.1	65.9	1.000051
132.7 -64.3 221.3 563.0 257.4 46.5 129.4 -65.1 226.7 561.9 257.4 44.7 120.0 -67.5 -6.7 207.7 559.7 258.4 44.7 120.0 -67.5 -6.7 199.1 558.6 257.2 44.7 117.0 -66.4 199.1 558.6 252.3 44.0 111.3 -70.0 199.8 558.4 258.4 49.0 111.3 -70.0 199.8 558.3 248.9 59.3 100.1 108.6 -56.9 258.4 248.9 58.3 101.1 -69.3 170.1 180.4 556.3 258.6 55.9 103.1 -69.3 170.1 160.2 556.3 256.1 58.9 103.1 -70.1 160.2 556.3 256.1 45.9 160.9 103.1 -71.1 160.2 553.1 270.0 49.9 160.9 100.2	:	136.0	-63.3	225.8	564.3	250.7	53.5	1.000050
129.4 -65.1 216.7 561.9 257.2 44.7 126.2 -65.9 257.2 44.7 120.1 120.2 120.2 120.3 258.6 255.2 44.7 166.8 120.3 120.3 258.6 255.3 49.0 111.3 -70.0 111.2 -70.0 111.2 -70.0 111.2 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 -70.0 110.0 </td <td>:</td> <td>132.7</td> <td>-64.3</td> <td>221.3</td> <td></td> <td>257.4</td> <td>46.5</td> <td>1.000049</td>	:	132.7	-64.3	221.3		257.4	46.5	1.000049
125.2 -65.9 212.1 560.8 257.2 44.7 127.1 -66.7 203.3 559.7 259.7 259.7 259.7 259.7 259.7 259.8 259.7 250.8 250.1 250.9 250.8 250.1 250.9 250.8 250.1 250.9 250.8 250.8 250.1 250.8 250.1 250.9 250.9 250.8 250.1 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.9 250.		159.4	-65.1	216.7		257.4	45.5	1.000048
123.1 -66.7 -66.7 207.7 559.7 254.7 46.8 120.0 -68.4 199.1 558.6 252.3 49.0 111.1 -69.2 199.1 558.6 252.3 199.0 111.3 -70.0 190.8 555.3 248.9 55.9 101.6 -69.6 180.9 556.9 250.6 55.9 103.1 -69.5 170.1 55.8 250.6 55.9 103.1 -69.5 170.1 170.2 556.3 250.6 55.9 100.6 -70.1 160.2 55.8 250.5 55.9 10.0 90.7 -71.6 160.2 55.8 250.7 58.9 10.0 90.7 -71.6 160.5 55.8 250.7 58.9 10.0 90.7 -71.6 160.5 553.8 270.0 49.9 10.0 90.7 -72.1 149.7 551.1 275.6 49.9 10.8 -73.1 140.2 551.1 275.7 275.1 10.8 -70.2 <td></td> <td>126.2</td> <td>-65.9</td> <td>212.1</td> <td>560.8</td> <td>257.2</td> <td>44.7</td> <td>1.000047</td>		126.2	-65.9	212.1	560.8	257.2	44.7	1.000047
120.0 -67.5 111.0 -67.5 111.1 -69.4 111.1 -69.2 111.2 -70.0 111.3 -70.0 101.6 -69.6 101.8 -69.6 101.9 -69.6 101.1 -69.6 102.1 -69.6 103.1 -69.6 103.1 -69.6 100.6 -69.6 100.7 -70.1 100.6 -69.6 100.7 -70.1 100.7 -71.6 100.8 -70.1 100.9	-	123.1	-66.7	207.7	559.7	254.7	46.8	1.000046
117.0 -68.4 199.1 557.5 250.5 50.8 111.3 -70.0 111.3 -	-	120.0	-67.5	203.3	558.6	252.3	0.64	1.000045
111.3 -69.2 111.4 -69.2 111.3 -70.0 108.5 -68.9 108.6 -68.9 101.6 -69.3 101.6 -69.3 101.6 -69.3 101.6 -69.5 101.6 -69.6 101.6 -69.6 101.6 -69.7 101.6 -69.6 102.6 -70.1 103.1 -70.1 104.2 55.8 105.8 -70.2 108.9 -70.1 109.9 -70.1 100.9 -70.2 100.9 -70.1 100.9 -70.1 100.9 -70.2 100.9 -70.2 100.9 -70.2 100.9 -70.2 100.9 -70.2 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.9 -70.0 100.0 -70.0 100.0 -70.0 100.0 -70.0 100.0 <	-	117.0	-68.4	1.661	557.5	250.5	50.8	1.000044
111.5		114-1	-69.2	194.9	556.4	248.8	55.5	1.000043
105.8 -68.9 105.8 -68.9 105.8 -68.9 105.8 -69.6 105.8 -69.6 105.9 -69.6 106.4 -59.6 107.1 -69.6 108.0 -70.1 108.0 -59.6 108.0 -70.1 108.0 -59.6 108.0 -70.1 108.0 -59.6 108.0 -70.1 108.0		2001	0.0/-	190.8	555.3	548.9	54.3	1.000042
180.4 556.8 252.5 57.5 110.6 6.9 6.9 6.9 180.4 556.8 256.1 56.9 110.6 6.9 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 6.9 110.6 6.9 110.6 553.1 254.5 255.1 254.9 110.6 553.1 254.9 257.4 275.6 40.5 110.6 6.9 6.9 110.6 553.1 254.9 257.6 250.9 110.6 6.9 110.6 553.1 254.9 257.9 250.9 110.6 553.1 254.7 275.0 110.6 558.1 254.7 275.0 2		20801	-68.8	185.0	556.9	250.6	55.9	1.000041
172.1 555.8 259.7 561.9 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6 -69.6 100.6		102.0	6.89	180.4	556.8	252.5	57.5	1.000040
95.5 -700.1 160.2 555.2 263.1 56.9 10 99.0 1		1001	5.69	7.0.7	556.5	1.057	1.86	1.000039
95.5 -70.6		0.00	120.1	1.7.1	222.0	7.607	58.9	1.000038
93.1 -71.1 93.1 -71.6 98.4 -72.1 98.4 -72.1 98.7 -71.6 98.4 -72.1 98.7 -72.6 98.7 -72.6 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -73.1 98.0 -74.1 98.0 -74.1 98.0 -74.1 98.0 -74.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 99.0 -73.1 130.8 -73.5 130.8 -73.5 120.2 -68.0 99.0 -73.1 130.8 -73.5 120.2 -68.0 99.0 -73.1 130.8 -73.1		95.5	1.07-	7.901	550.6	1.693	9999	1.000037
90.7 -71.6 90.7 -71.6 90.7 -71.6 90.7 -72.1 90.7 -72.1 90.7 -72.1 90.8 -72.1 90.8 -72.1 90.8 -72.1 90.8 -72.1 90.9 -73.6 91.9 -74.5 91.0 -68.0 91.0 -73.6 91.0 -		93.1	-71-1	160.5		270.0	000	
88.4 -72.1 86.2 -72.6 86.2 -72.6 84.0 -73.1 84.0 -73.1 84.0 -73.1 84.0 -73.1 84.0 -73.6 81.9 -73.6 81.9 -73.6 81.9 -74.1 81.9 -74.1 81.0 -68.1 81.0 -68.2 81.0 -74.1 81.0 -		2006	-71.6	156.8		272.6	45.1	1.000035
86.2 -72.6 10 86.2 -72.6 10 84.0 -73.1 10 84.0 -73.6 10 84.0 -73.6 10 84.9 -74.1 10 77.8 -74.6 10 75.8 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 -74.5 10 75.9 274.5 10 75.9 274.5 10 75.9 274.5 10 557.6 273.6 10 66.8 -68.2 10 65.1 -67.9 10 557.4 260.9 10 558.1 254.7 10 756.4 257.4 10 756.4 253.4 10 756.4 253.4 10 756.4 255.4 10 77.2 10 7	-	4.88	-72.1	153.2		275.6	40.5	1.000034
0 84.0 -73.1 0 81.9 -73.6 1 142.9 550.4 275.7 1 139.6 549.7 275.0 1 139.6 549.7 275.0 1 136.4 549.7 275.7 1 136.4 549.0 274.3 1 130.8 553.5 274.5 1 125.5 558.0 274.5 1 125.5 558.0 274.7 1 119.6 557.2 271.4 1 116.5 557.2 271.4 1 116.5 557.4 260.6 1 113.5 557.4 260.9 1 110.6 558.1 254.7 2 -67.7 107.7 558.4 253.4 1 107.7 558.4 253.4 21.9	-	86.2	-72.6	149.7		275.8	39.0	1.000033
61.9 -73.6 79.8 -74.1 139.6 549.7 27.8 -74.6 136.4 549.7 27.8 -71.3 136.4 549.7 27.9 274.3 137.8 553.5 126.5 553.5 127.2 274.5 127.2 274.5 127.2 274.7 127.2 274.7 127.2 274.7 119.6 557.2 27.1 27.2 116.5 557.2 271.4 27.2 116.5 557.4 267.6 27.2 116.5 557.4 260.9 27.1 110.6 558.1 260.9 27.1 27.1 27.1 110.6 558.1 260.9 27.7 27.9 110.7 558.4 253.4 253.4 21.9 253.4 253.4 253.4 253.4	-	0.48	-73.1	146.2		276.0	37.5	.00003
139.6 549.7 275.0 34.7 10 77.8 -74.6 136.4 549.0 274.3 33.2 10 75.8 -71.3 130.8 553.5 274.5 30.2 10 73.9 -68.0 274.7 27.2 27.2 10 70.2 -68.3 27.2 27.2 27.2 10 66.5 -68.4 27.2 27.4 27.2 10 66.8 -68.4 267.6 22.2 11 11 65.1 -67.9 21.1 21.1 21.1 10 65.5 -67.7 25.4 21.9 1 10 63.5 -67.7 25.4 25.4 25.4	-	61.9	-73.6	142.9		275.7	36.0	.00003
136.4 549.0 274.3 33.2 10 75.8 -71.3 130.8 553.5 274.5 30.2 10 73.9 -68.0 274.7 27.2 1 10 72.0 -68.3 274.7 27.2 1 10 70.2 -68.4 27.2 271.4 22.2 10 66.8 -68.4 267.2 271.4 22.2 10 66.8 -68.4 267.6 20.6 1 11 65.1 -67.9 267.6 20.6 1 10 65.1 -67.9 267.6 259.7 267.6 10 65.1 -67.9 254.7 21.9 1 10 63.5 -67.7 254.7 253.4 23.4 1	:	79.8	-74.1	139.6		275.0	34.7	1.000031
130.8 553.5 274.5 30.2 10.0 75.9 -68.0 27.2 10.0 72.0 -68.3 10.0 70.2 -68.6 10.0 70.2 -68.6 10.0 70.2 -68.6 10.0 68.5 -68.4 10.0 66.8 -68.2 10.0 66.8 -68.2 10.0 65.1 -67.9 10.0 65.1 -67.9 10.0 63.5 -67.7 21.0 10.0 53.4 253	:	77.8	-74.6	136.4	549.0	274.3	33.2	1.000030
125.5 558.0 274.7 27.2 1 10 72.0 -68.3 122.5 557.6 273.6 24.6 1 10 70.2 -68.6 -68.6 271.4 22.2 1 10 66.8 -68.2 116.5 557.4 267.6 20.6 1 10 66.8 -68.2 113.5 557.8 260.9 21.1 1 10 65.1 -67.9 110.6 558.1 254.7 21.9 1 10 63.5 -67.7 107.7 558.4 253.4 23.4 1	:	75.8	-71.3	130.8	553.5	274.5	30.2	1.000029
122.5 557.6 273.6 24.6 10 70.2 -68.6 271.4 22.2 10 68.5 -68.4 267.6 20.6 10 66.8 -68.2 113.5 557.4 267.6 20.6 10 65.1 -67.9 21.1 113.5 557.8 260.9 21.1 10 65.1 -67.9 21.1 254.7 21.9 1 10 63.5 -67.7 253.4 253.4 253.4	:	73.9	-68.0	125.5	558.0	274.7	27.2	.00002
.0 70.2 -68.6 -68.4 22.2 1 .0 68.5 -68.4 267.6 20.6 1 .0 66.8 -68.2 113.5 557.4 267.6 20.6 1 .0 65.1 -67.9 21.1 1 .0 65.1 -67.9 21.9 1 .0 63.5 -67.7 23.4 1		72.0	-68.3		557.6	273.6	24.6	.00002
10.0 68.5 -68.4 20.6 1 10.0 66.8 -68.2 113.5 557.8 260.9 21.1 1 10.0 65.1 -67.9 110.6 558.1 254.7 21.9 1 10.0 63.5 -67.7 107.7 558.4 253.4 23.4 1		70.2	-68.6		557.2	271.4	22.2	
30.0 66.8 -68.2 113.5 557.8 260.9 21.1 1 30.0 65.1 -67.9 110.6 558.1 254.7 21.9 1 30.0 63.5 -67.7 107.7 558.4 253.4 23.4 1	200		-68.4	•	557.4	267.6	50.6	1.000028
10.0 65.1 -67.9 110.6 558.1 254.7 21.9 1 10.0 63.5 -67.7 110.0 107.7 558.4 253.4 1	000	;	-68.2	ė	57	260.9	21.1	1.000025
30.0 63.5 -67.7 107.7 558.4 253.4 23.4 1	00	3		10.	58.	254.7	21.9	1.000025
	0	÷	-67.7	:	58.	53.	23.4	a

ISL	
3997.30 FEET	0845 HRS MST
ALTITUDE	ASCENSION NO. 43
STATION	12 MAR. ASCENSIO

GEOMETRIC ALTITUDE MSL FEET N

GEODETIC COOKDINATES	32.48034 LAT DEG	106.42307 LON DEG

UPPER AIR DATA 071006⁰043 S M R

	NOI	1023	.00003	0055	100	0021	0000	0050	6100	6100	8100	0018	7100	1017	1011	9100	9100	9100	5100	9100	0100	2100	3015	0013	0013	0013	3012	2015	2012	1100	1100	1100	1011	0100	0100	0100	6000000	6000	6000	6000	6000000
INDEX	OF REFRACTION	1.000	1.000	1.000022	1.00002	1.00002	1.000020	1.000020	1.000019	1.00001	1.00001	1.00001	1.00001	1.00001	1.00001	1.000016	1.00001	1.00001	1.000015	1.00001	1.00001	1.00001	1.00001	1.00001	1.00001	1.00001	1.000012	1.000012	1.00001	1.00001	1.00001	1.00001	1.00001	1.000010	1.000010	1.000010	1.000	1.000009	1.00000	1.00000	1.000
TA	KNOTS	25.0	26.0	26.4	26.8	56.4	25.9	24.8	22.6	20.4	16.7	13.0	10.0	9.00	8.3	8.9	6.5	10.1	10.8	12.3	13.9	15.3	16.9	16.5	15.5	14.5	.1.3	8.2	5.5	4.7	3.4	3.7	4.1	60	4.0	5.	8.7	10.1	11.9	13.6	15.3
WIND DATA	DEGREES(TN)	253.0	254.5	258.3	262.1	264.3	266.5	268.0	268.5	269.2	273.5	280.6	293.4	313.8	228.5	338.8	335.2	327.8	311.4	298.1	289.1	282.4	276.9	275.7	275.5	275.2	278.4	284.4	295.7	90100	310.3	312.6	8.062	285.9	278.2	272.2	207.9	255.9	20003	200.4	260.0
PO	KNOTS	558.7	559.2	560.8	561.6	561.7	561.8	561.9	562.0	562.1	562.4	562.8	563.2	563.6	264.0	564.4	564.9	565.1	565.4	565.7	565.9	566.2	566.4	566.7	567.0	567.2	567.5	567.7	568.0	568.3	568.5	563.8	269.0	569.5	569.5	5.695	570.5	571.1	571.7	572.4	573.0
	METER	104.9	102.1	0.66	96.3	93.9	9.16	89.3	87.1	6.48	82.7	9.08	78.5	76.5	0.47	72.6	•	6.89	67.5	65.5	63.6	62.3	2.09	2.69	57.8	56.3	24.9	53.5	52.5	20.9	9.64	t.8.	47.2	0.94	6.11	43.8	45.6	41.5	40.2	39.4	38.4
REL.HUM.	PERCENT																																								
TEMPERATURE	CENTIGRADE																																								
TEMP	DEGREES	-67.5	-67.1	0.99-	-65.4	-65.3	-65.2	-65.1	-65.0	6-49-	-64.8	-64.5	-64.2	-63.8	200	-63.2	-65.9	-62.1	-62.5	-62.3	-62.1	-61.9	-61.7	-61.6	-61.4	-61.2	-61.0	-20.8	9.09-	1.09-	20.5	-60.0	-59.8	29.7	-26.2	-59.5	-58.7	-58.2	-57.8	-57.3	-56.8
PRESSURE	MILLIBARS	61.9	h.09	58.9	57.4	26.0	24.7	53.3	52.0	20.1	49.5	48.3	47.1	40.0		43.	1.24	41.0	40.0	26.1	38.7	37.8	36.9	36.0	35.1	24.0	33.4	32.6	31.8	31.1	30.3	59.6	28.9	28.2	27.5	56.9	26.2	52.6	25.0	54.4	53.9
	-	-	0	-	0	0	-	-	0	-	_	_	_			-	_	-	_	-	0	-	0	0	_	0	0	0	0	0	0	0	0	-	_	0	0	0	-	0	0

74500.0 78500.0 79500.0

80506.0 615000.0 825000.0

DATA 143	SPEED OF SOUND KNOTS	37.4 573.6 36.5 574.2 35.6 574.8 34.6 575.4
UPPER AIR DATA 0710060043 S M R	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBI ^C SOUND METER KNOTS	2000 M M M M M M M M M M M M M M M M M M
,	REL . HUM. PERCENT	
EET MSL S MST	GEOMETRIC PRESSURE TEMPERATURE ALTITUDE AIR DEWPOINT MSL FEET MILLIBARS DEGREES CENTIGRADE	
17.30 FE	TEI AIR DEGRÉES	1555.4 1555.4
TITUDE 399	PRESSURE MILLIBARS	23.3 22.8 21.7
STATION ALTITUDE 3997.30 FEET MSL 12 MAR. 79 0845 HRS MST ASCENSION NO. 43	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	840000 840000 8450000 850000

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

ž	00088 000088 00007 0007 0005 0005 0005 0
INDEX OF REFRACTION	1.0000008 1.0000008 1.0000008 1.0000007 1.0000007 1.0000007 1.0000006 1.0000006 1.0000005 1.0000005 1.0000005 1.0000005 1.0000005 1.0000005 1.0000005
SPEED KNOTS	21111111 200000000000000000000000000000
WIND DATA DIRECTION S DEGREES(TN) K	2711.1 2773.1 2875.2 2875.2 2882.3 2882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3 3882.3
SPEED OF SOUND KNOTS	574.2 574.2 574.2 574.2 574.3 574.3 577.3 57
DENSITY S GM/CUBIC METER	200 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
REL.HUM. PERCENT	
TEMPERATURE R DEWPOINT EES CENTIGRADE	
TEMP AIR Degrees	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PRESSURE MILLIBARS	22222222222222222222222222222222222222
OMETRIC TITUDE	845500.0 845500.0 845500.0 86500.0 86500.0 86500.0 86500.0 84500.0 94500.0 94500.0 94500.0 94500.0 94500.0

STATION ALTITUDE 3997.30 FEET MSL 12 MAR. 79 0845 HRS MST ASCENSION WO. 43

MRN SIGNIFICAN^T LEVEL DATA 071006⁰043 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

TEMPERATURE PRESSURE DEG C MILLIBARS							•	0				4		59.7 1.000+2
DEG C	1 66			66										
M N S S S S S S S S S S S S S S S S S S	*** 6666-	;	1.	7.	;	1.	2.	6	13.	13.	11.	14.	17.	30.
DATA N=S MPS	****6666-	2.	-1.	-2.	-0-	-1.	;	••	2.	.,	-0-	-1-	-1-	5.
SPEED	****6666	. +	.1	7.	.,	٠,	5.	.6	14.	13.	11.	14.	17.	30.
DIRECTION DEG (TN)	****6666	243.	315.	288.	275.	315.	335.	271.	260.	254.	271.	275.	274.	261.
GEOPOTENTIAL ALTITUDE DECAMETERS	2944.	2826.	2735.	2631.	2435.	2374.	2157.	-6502	1966.	1945.	1855.	1822.	1794.	1644.

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MANDATORY LEVELS 071006⁰043 S M R

> STATION ALTITUDE 3997.30 FEET MSL 12 MAR. 79 0845 HRS MST ASCENSION NO. 43

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

PRES	SURE	PRESSURE GEOPOTENTIAL	TEMP	TEMPERATURE .	REL . HUM.	MIN	DAT
MILLIBARS	BARS	FEET	DEGREES	CENTIGRADE	PERCENI	DEGREES (TN	IN) KNOTS
	850.0	4986.	8.3	-5.5	37.	0.6666	XX0.6666
	800.0	6626.	5.9	-2.5	55.	0.6666	XX0.6666
	750.0	8349.	2.4	-14.2	28.	0.6666	XX0.6666
	700.0		6:-	-21.0	20.	285.4	13.3
	650.0		-3.2	-24.1	18.	261.5	24.4
	600.0	14171.	-5.5	-25.3	19.	262.5	26.7
	550.0		-10.2	-28.3	21.	267.7	30.1
	500.0	18782.	-14.5	-33.0	19.	277.9	39.1
	450.0	21371.	-20.7	-37.8	20.	265.5	46.2
	400.0	24188.	-27.1	-41.1	25.	268.2	59.3
	350.0	27315.	-32.0	-45.0	26.	265.6	9.68
	300.0	30838.	-38.8			261.1	101.3
	250.0		-41.2			258.5	112.1
	200.0		5.64-			251.1	97.3
	175.0		-53.6			254.8	7.96
	150.0	45872.	-58.5			255.1	63.8
	125.0		-66.2			256.3	45.4
	100.0		-69-7			260.3	59.1
	80.0		-74.0			275.1	34.9
	70.0		-68.6			271.2	22.1
	0.09	63899.	-66.8			255.2	26.0
	20.0	67540.	6.49-			271.1	18.5
	40.0		-62.4			303.4	11.6
	30.0		-60.1			314.1	3.8
	25.0		-57.8			266.2	11.8
	20.0		-53.4			287.8	14.7
	15.0	92417.	6.94-			243.6	6.7

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MRN MANDATORY LEVELS 071006⁰043 S M R

> STATION ALTITUDE 3997.30 FEET MSL 12 MAR. 79 0845 HRS MST ASCENSION NO. 43

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

GEODOTENTIAL		ONT.	DATA			TEMPERATURE	
ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED	S-M S-M S-M	M S N	DEW PT DEP DEG C		PRESSURE MILLIBARS
2817.	244.	3.	2.	3.	66	6.91-	1.500+1
2631.	288.		-2.	7.	66	-53.4	2.000+1
2488.	266.	•	•	•	66	-57.8	2.500+1
2374.	314.	2.	-1:	1.	66	-60.1	3.000+1
2196.	303.	٥		5.	66	-52.4	4.000+1
2059.	271.	10.	.0-	10.	66	6.49-	5.000+1
1948.	255.	13.		13.	66	-56.8	6.000+1
1855.	271.	11.	-0-	11.	66	-68.6	7.000+1
1776.	275.	10.	-5.	18.	66	-74.0	8 - 000 + 1
1644.	260.	30.	'n	30.	66	£.69-	1.000+2
1511.	.56.	.5.	• • •	23.	66	2.99-	1.250+2
1398.	255.	43.	11.	.74	66	58.5	1.500*2
1300.	255.	50.		.01	66	-53.6	1.75042
1213.	251.	50.	16.	47.	66	9.65-	2.000+2
1064.	.59.	58.	11.	57.	66	-41.2	2.500+2
-046	261.	52.	8.	51.	66	-38.8	3.000+2
	266.	40.		.94	13	-32.0	3.500+2
737.	268.	31.		31.	11	-27.1	4.000+2
651.	266.	24.	2.	24.	17	-20.7	4.500+2
572.	278.	20.	-3.	20.	18	-14.5	5.000+2
-009	268,	15.		15.	18	-10.2	5.500+2
432.	262.	14.	3.	14.	50	-5.5	6.000+2
369.	261.	13.	5.	12.	51	-3.5	6.500+2
310.	285.	7.	-5-	7.	50	6	7.000+2
554.	***6666	*** 6666	*** 6666-	*** 6666-	1.1	2.4	7.500*2
202.	*** 6666	***6666	-4.6666-	*** 6666-	90	5.6	8.000*2
152.	*** 6656	***6666	****6666-	*** 5666-	74	8.3	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.